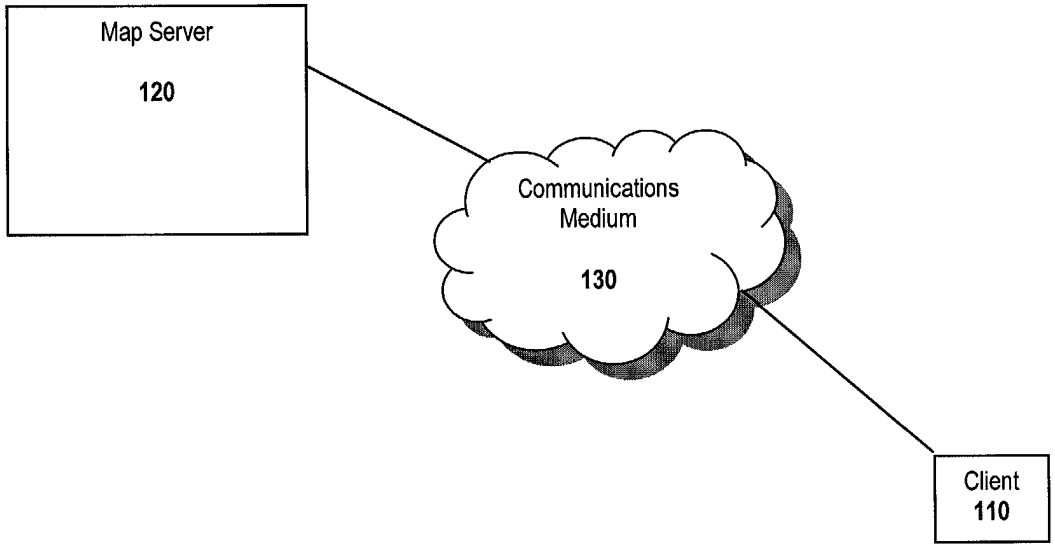


Figure 1

Figure 2A

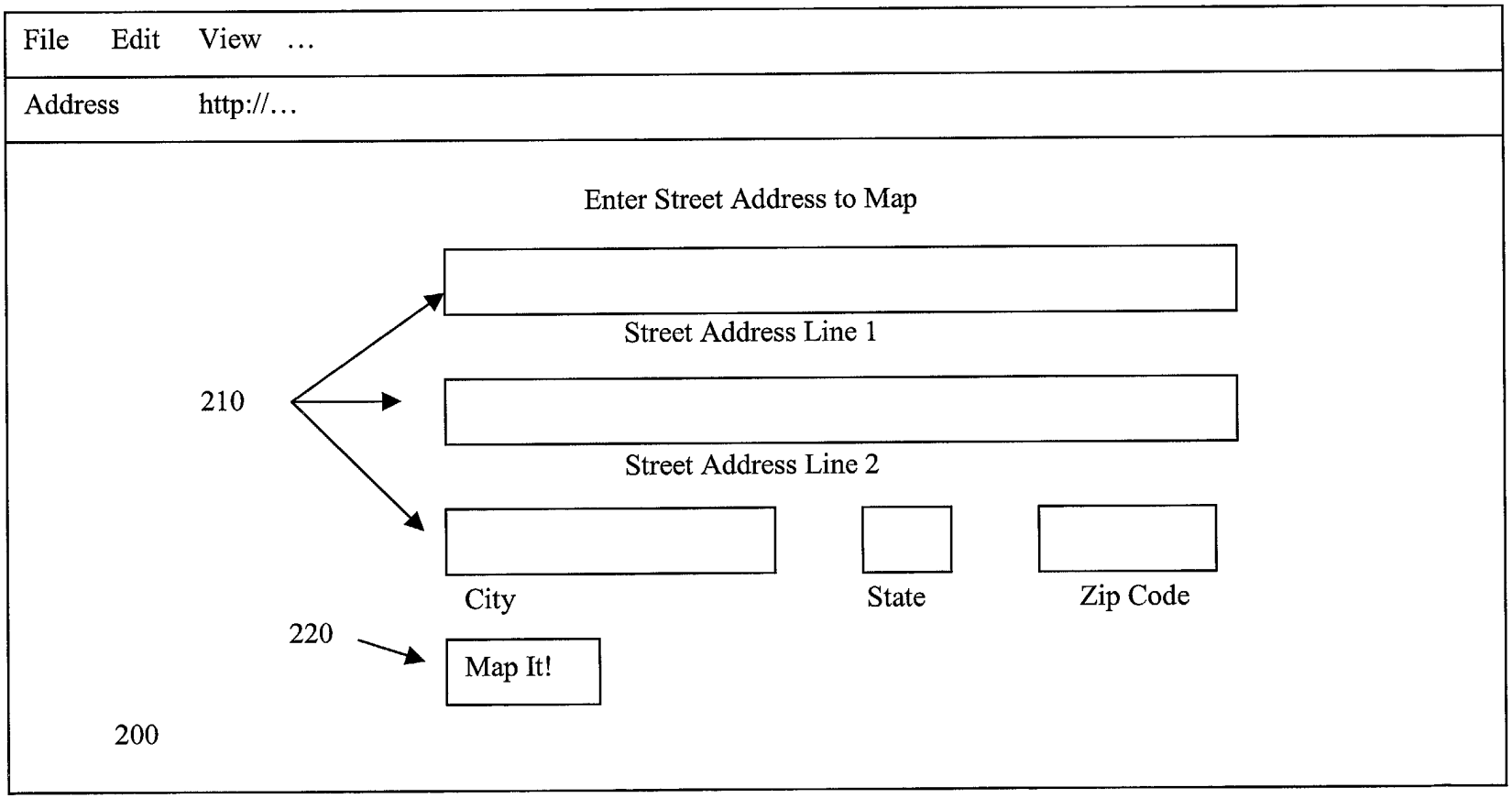

File Edit View ...
Address http://...
Enter Street Address to Map
Street Address Line 1
Street Address Line 2
210
City
State
Zip Code
220
Map It!
200

Figure 2B

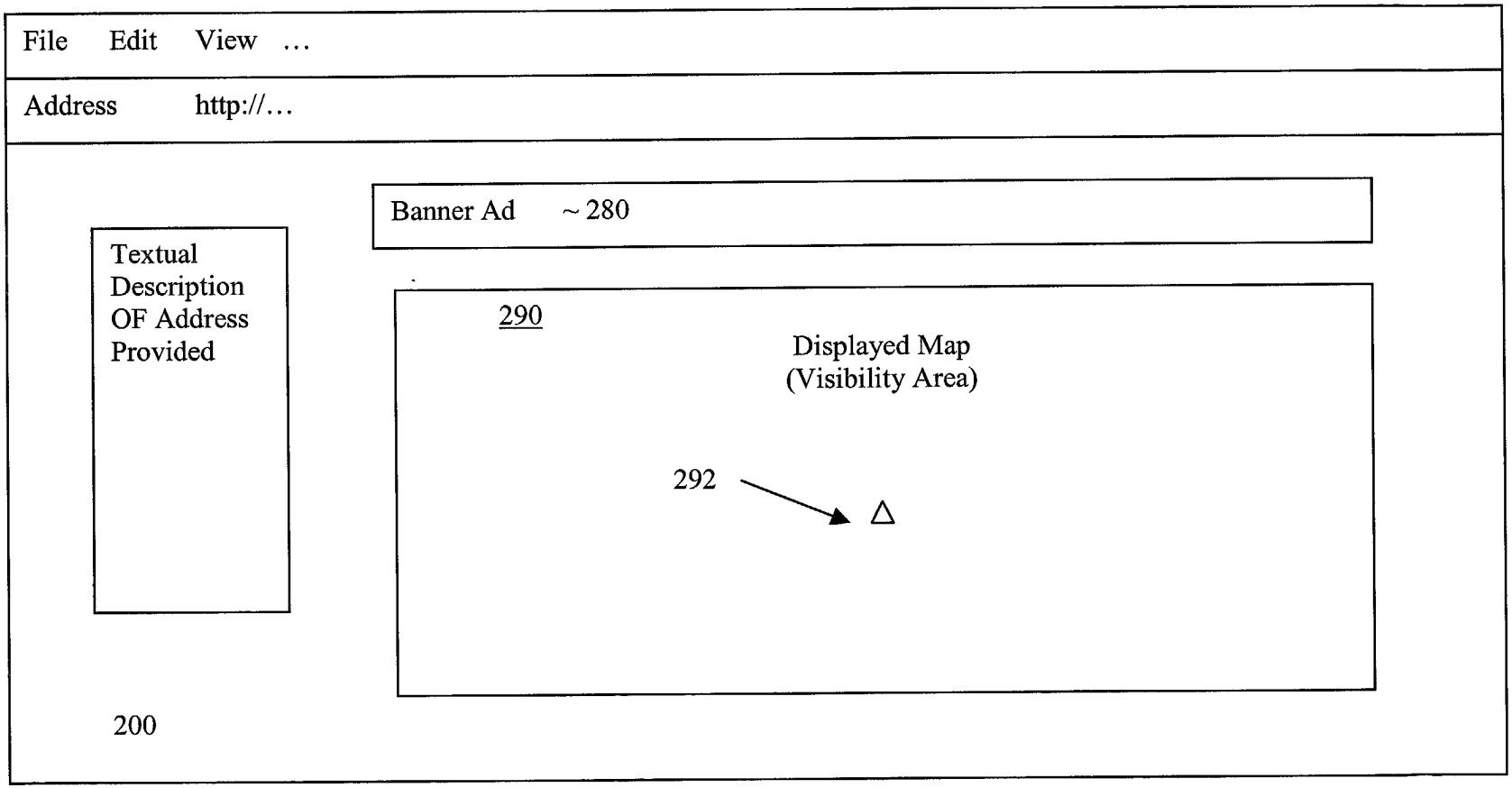

File Edit View ...
Address http://...
Banner Ad ~ 280
Textual Description OF Address Provided
290
Displayed Map (Visibility Area)
292
200

Figure 3

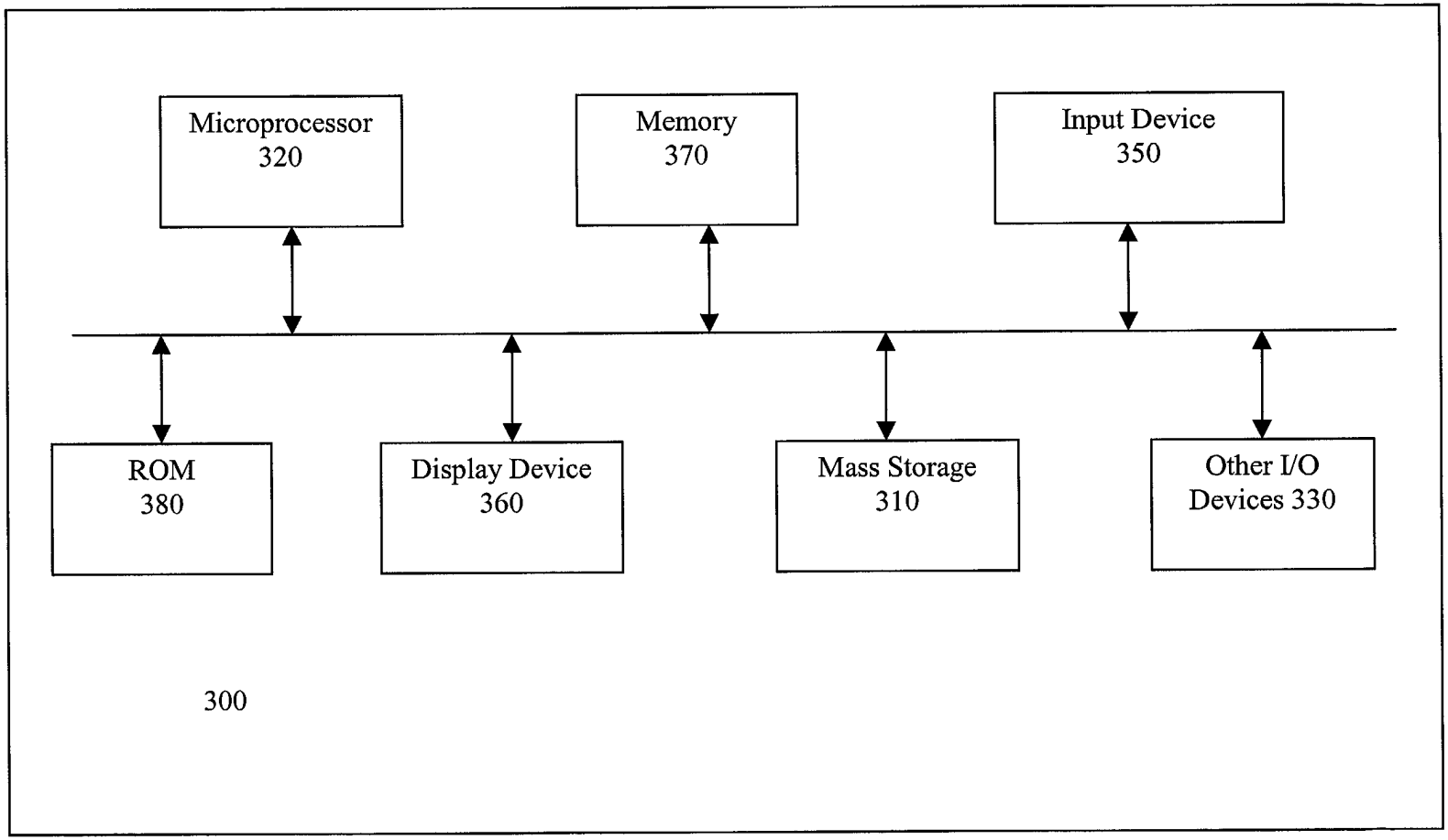

Microprocessor
320
Memory
370
Input Device
350
ROM
380
Display Device
360
Mass Storage
310
Other I/O
Devices 330
300

Figure 4

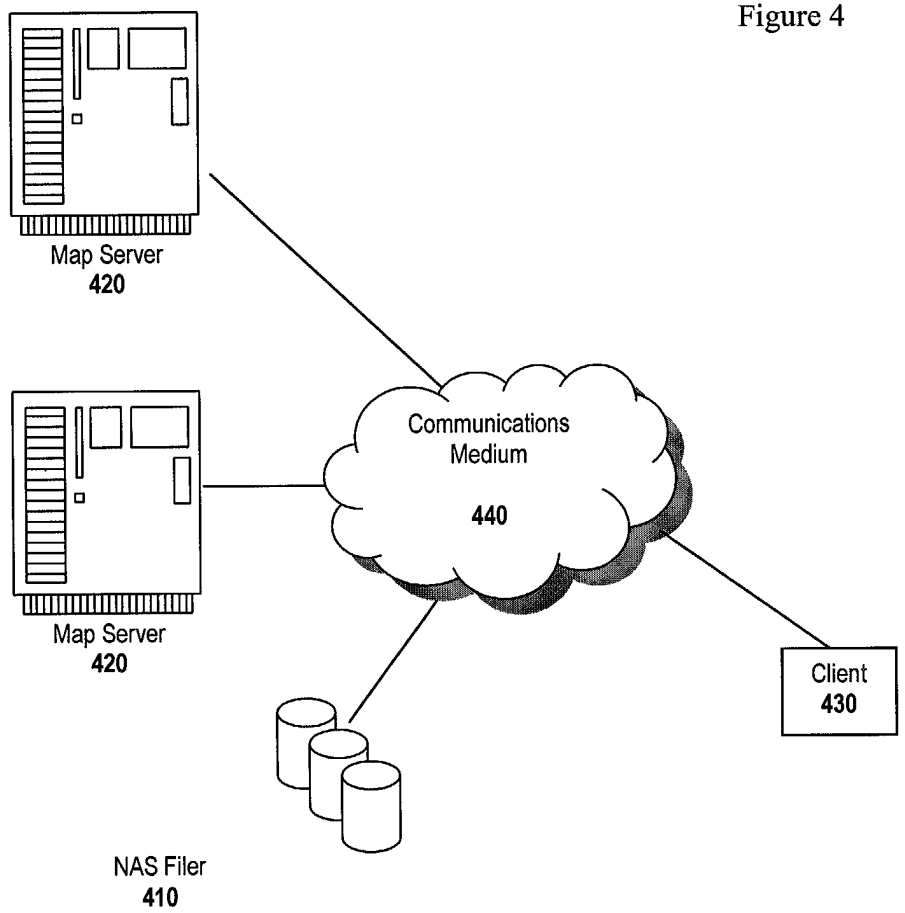
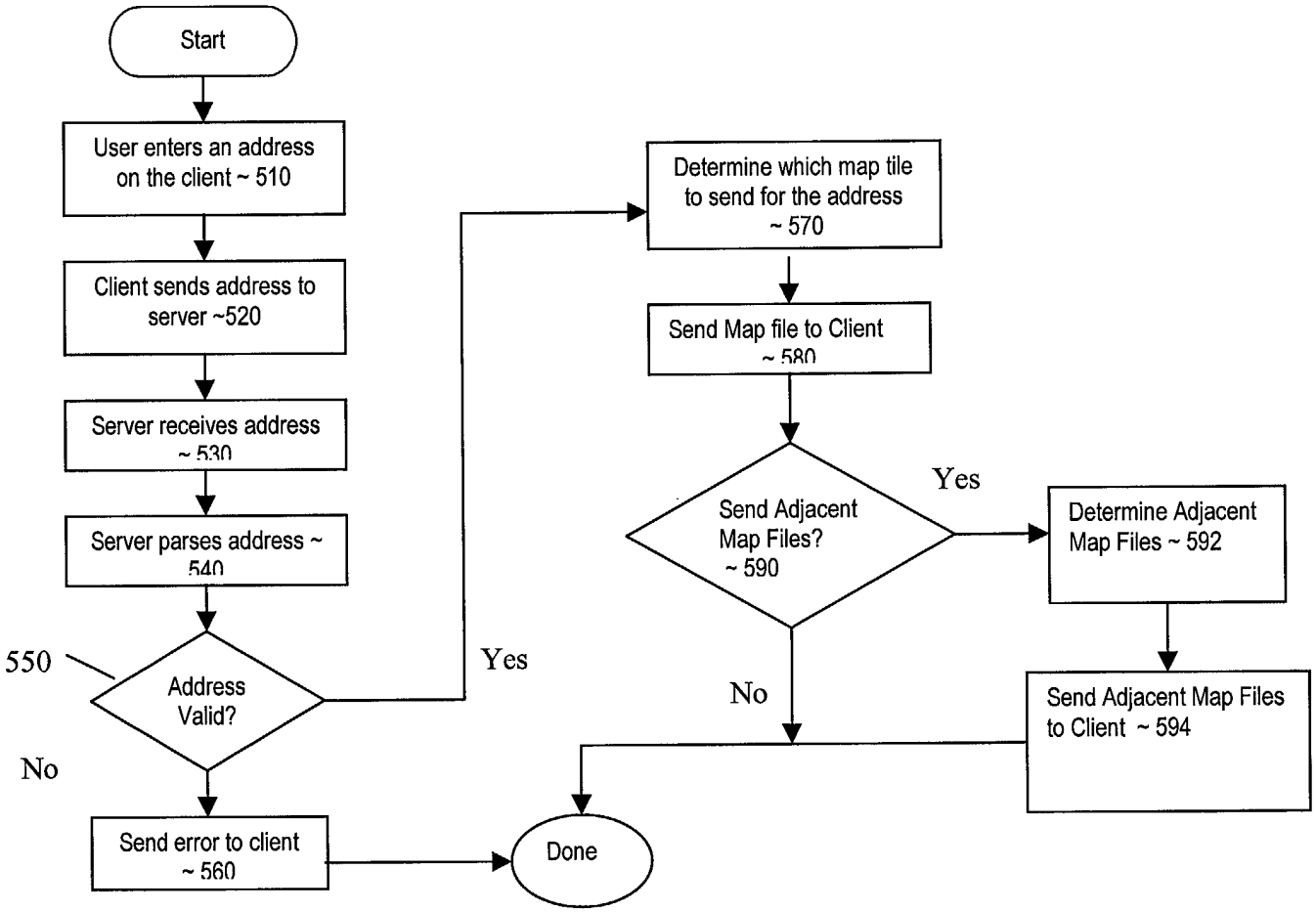
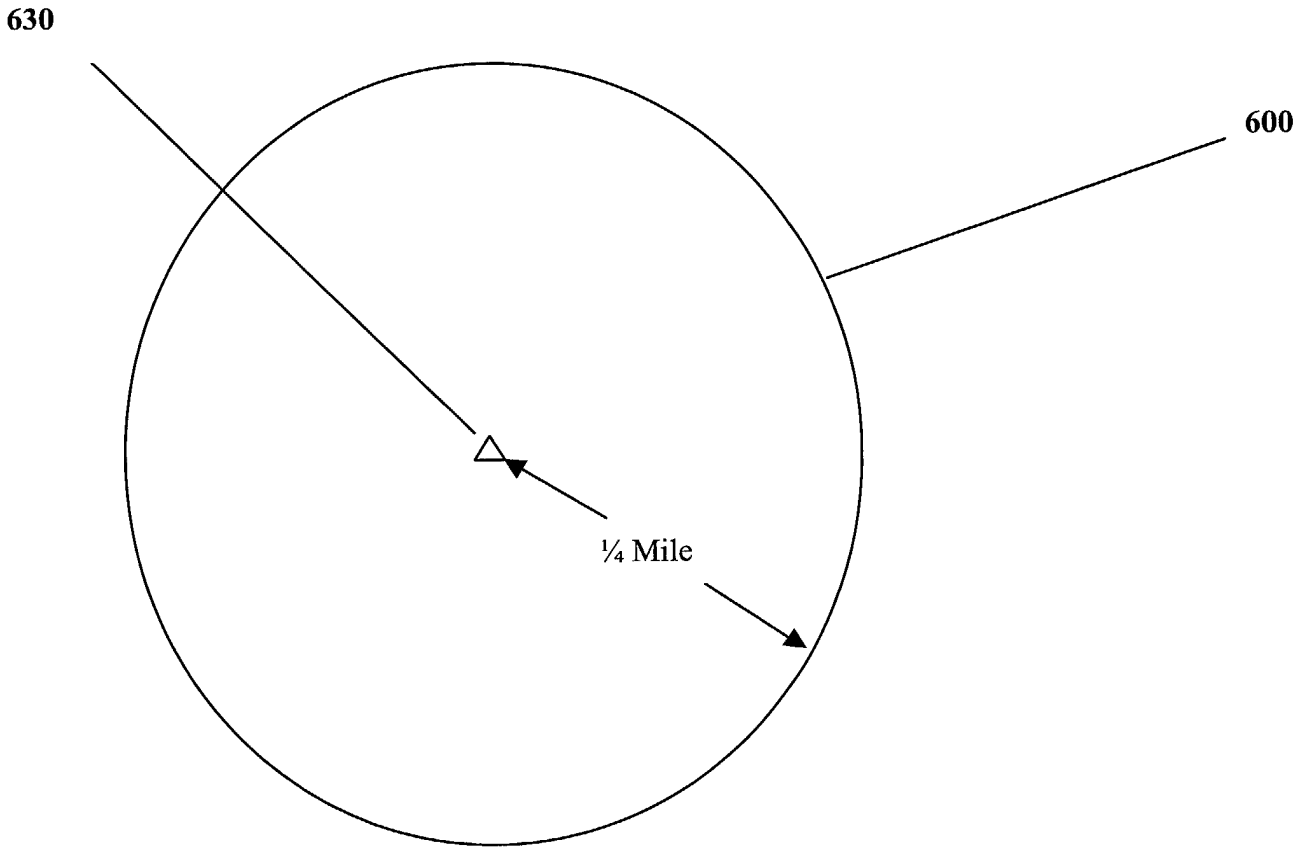

Map Server
420
Map Server
420
Communications
Medium
440
Client
430
NAS Filer
410

Figure 5


Start
User enters an address on the client ~ 510
Client sends address to server ~520
Server receives address ~ 530
Server parses address ~ 540
550
Address Valid?
Yes
No
Send error to client ~ 560
Done
Determine which map tile to send for the address ~ 570
Send Map file to Client ~ 580
Send Adjacent Map Files? ~ 590
Yes
No
Determine Adjacent Map Files ~ 592
Send Adjacent Map Files to Client ~ 594

TOTAL P.06

Figure 6



FOREIGN PATENT

Figure 7

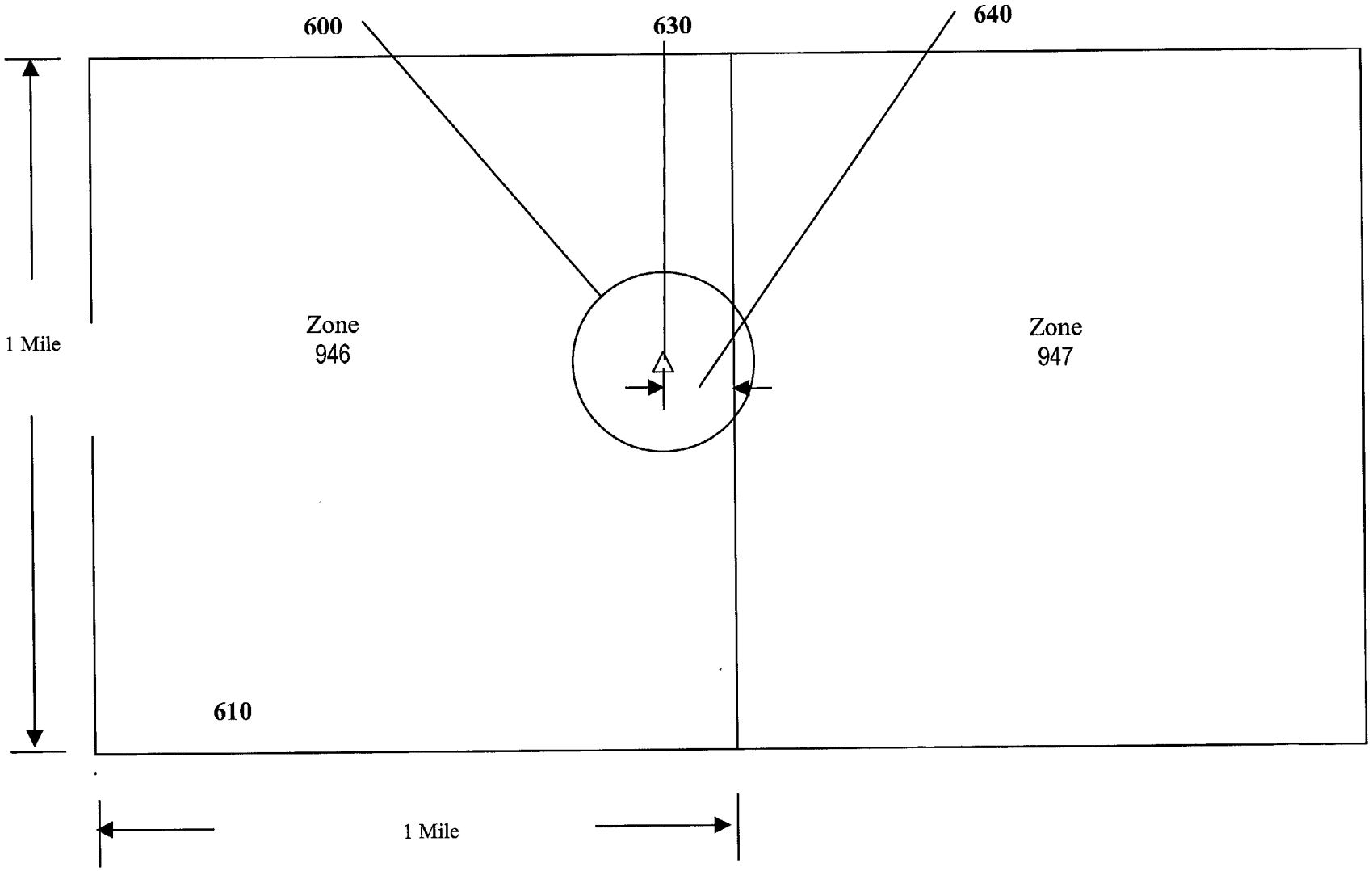


Figure 8

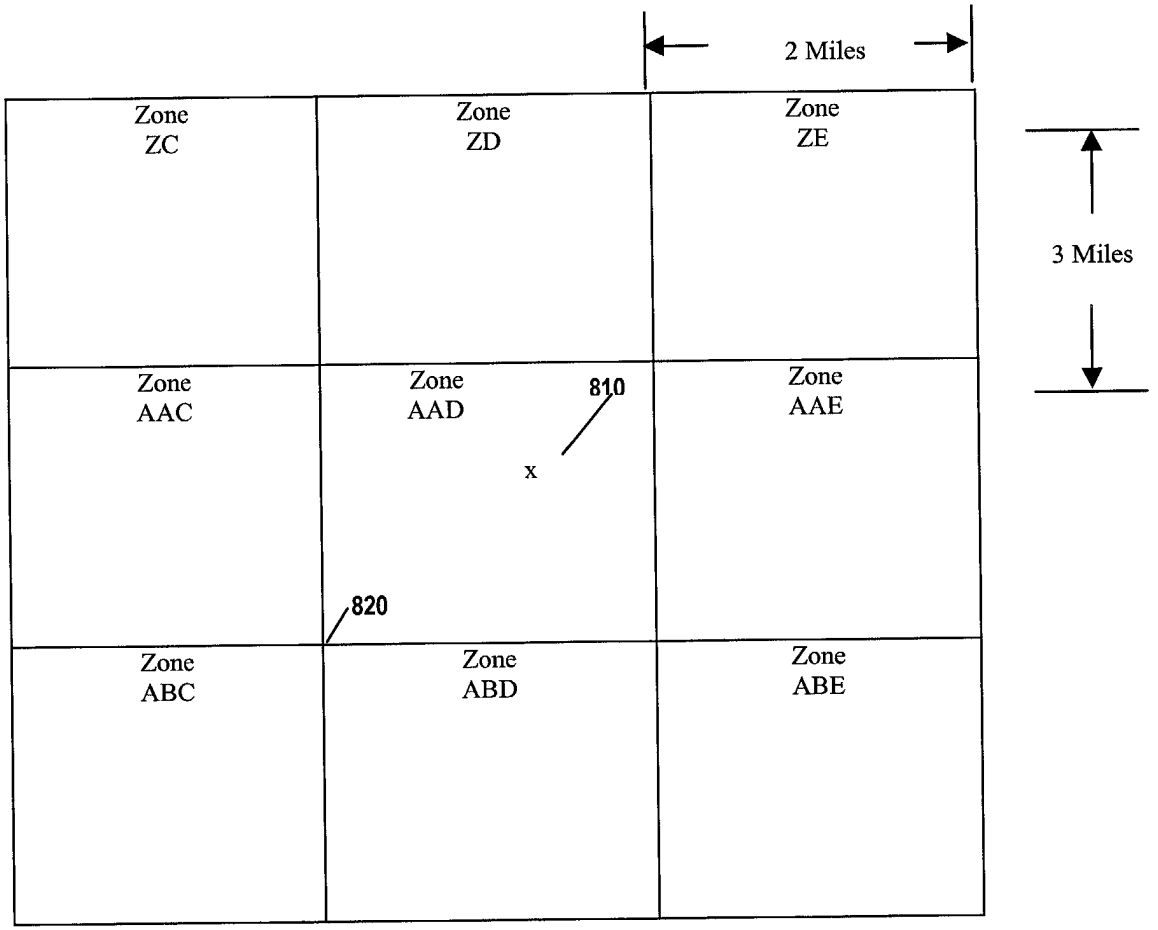

2 Miles
3 Miles
Zone ZC
Zone ZD
Zone ZE
Zone AAC
Zone AAD
Zone AAE
Zone ABC
Zone ABD
Zone ABE
810
820
x

Figure 9

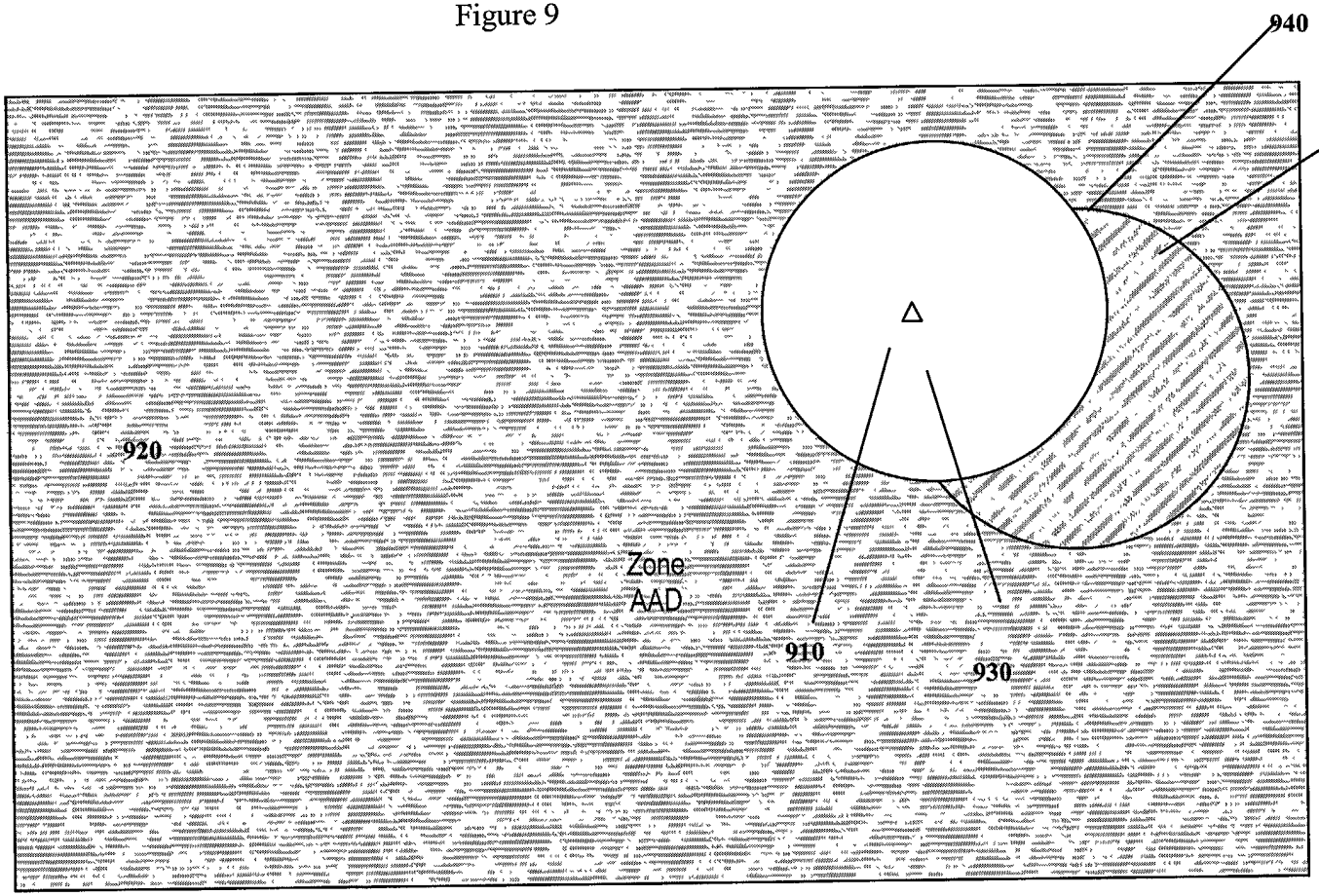


Figure 10

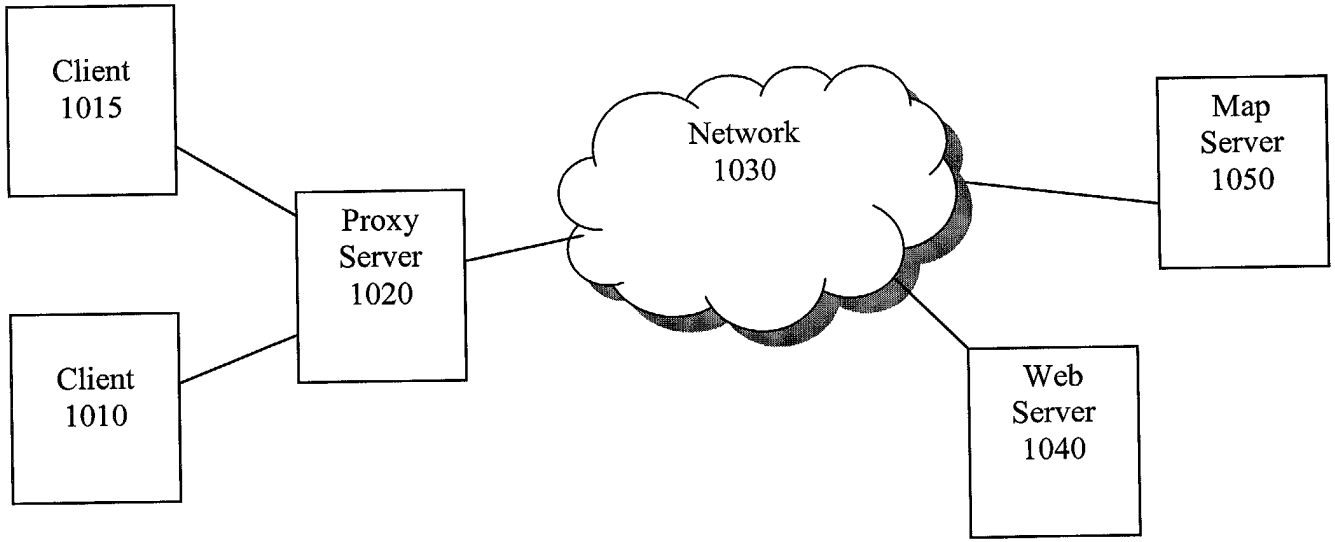

Client
1015
Client
1010
Proxy
Server
1020
Network
1030
Map
Server
1050
Web
Server
1040

Figure 11

Zone 22750	Zone 22751	Zone 22752	Zone 22753	Zone 22754	Zone 22755	Zone 22756	Zone 22757
Zone 32760	Zone 32761 x ←**1110**	Zone 32762	Zone 32763	Zone 32764	Zone 32765 x ←**1115**	Zone 32766	Zone 32767
Zone 42770	Zone 42771	Zone 42772	Zone 42773 x ←**1150**	Zone 42774	Zone 42775	Zone 42776	Zone 42777
Zone 52780	Zone 52781	Zone 52782	Zone 52783	Zone 52784	Zone 52785	Zone 52786	Zone 52787
Zone 62790	Zone 62791	Zone 62792	Zone 62793	Zone 62794	Zone 62795	Zone 62796	Zone 62797

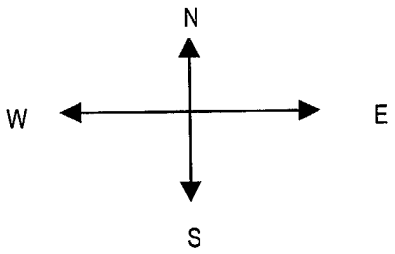


Figure 12

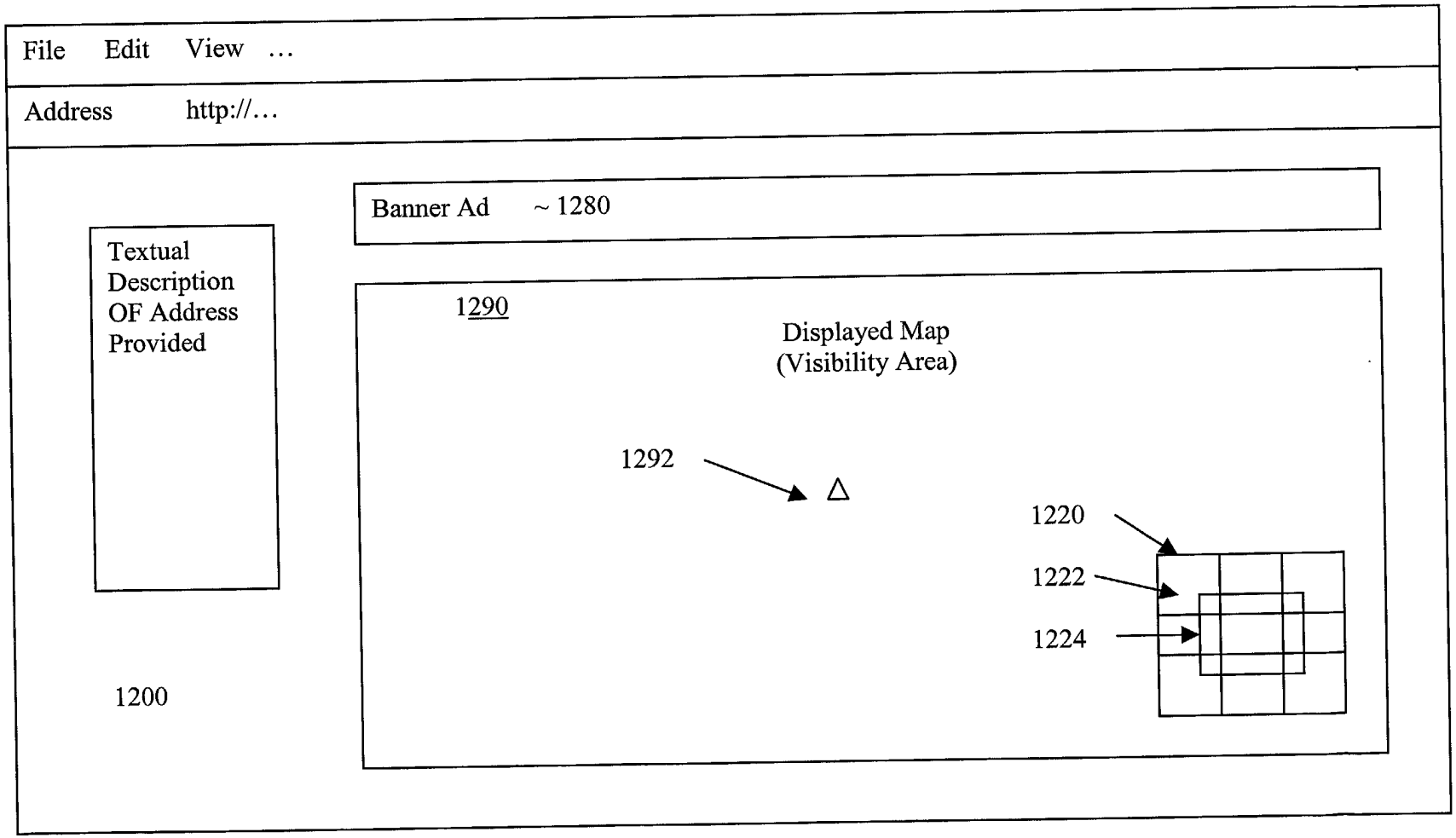

File Edit View ...
Address http://...
Banner Ad ~ 1280
Textual Description OF Address Provided
1290
Displayed Map (Visibility Area)
1292
1220
1222
1224
1200

Figure 13

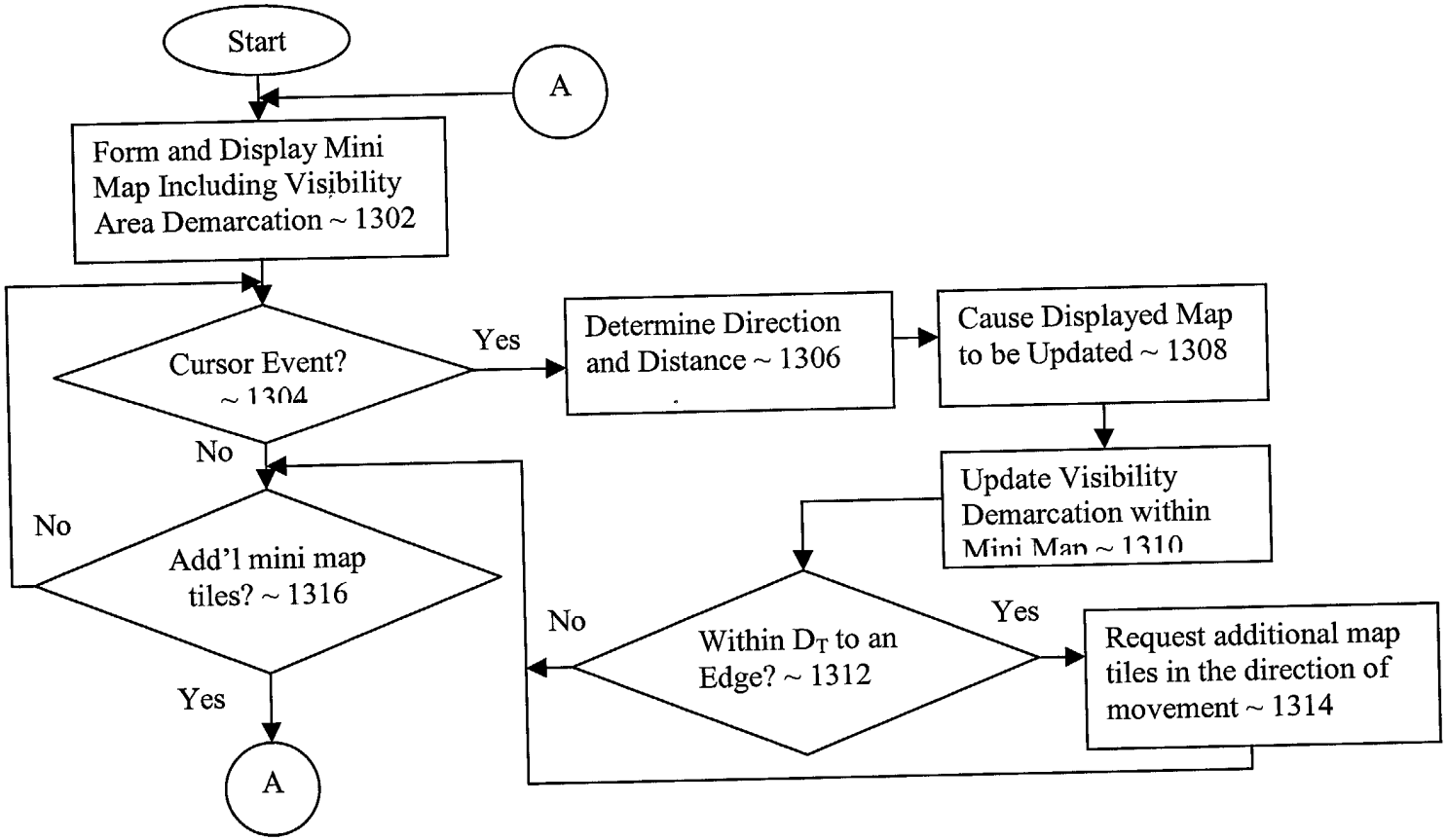

Start
A
Form and Display Mini Map Including Visibility Area Demarcation ~ 1302
Cursor Event? ~ 1304
Yes
Determine Direction and Distance ~ 1306
Cause Displayed Map to be Updated ~ 1308
No
Update Visibility Demarcation within Mini Map ~ 1310
No
Add'l mini map tiles? ~ 1316
Yes
A
No
Within D_T to an Edge? ~ 1312
Yes
Request additional map tiles in the direction of movement ~ 1314

Figure 14a

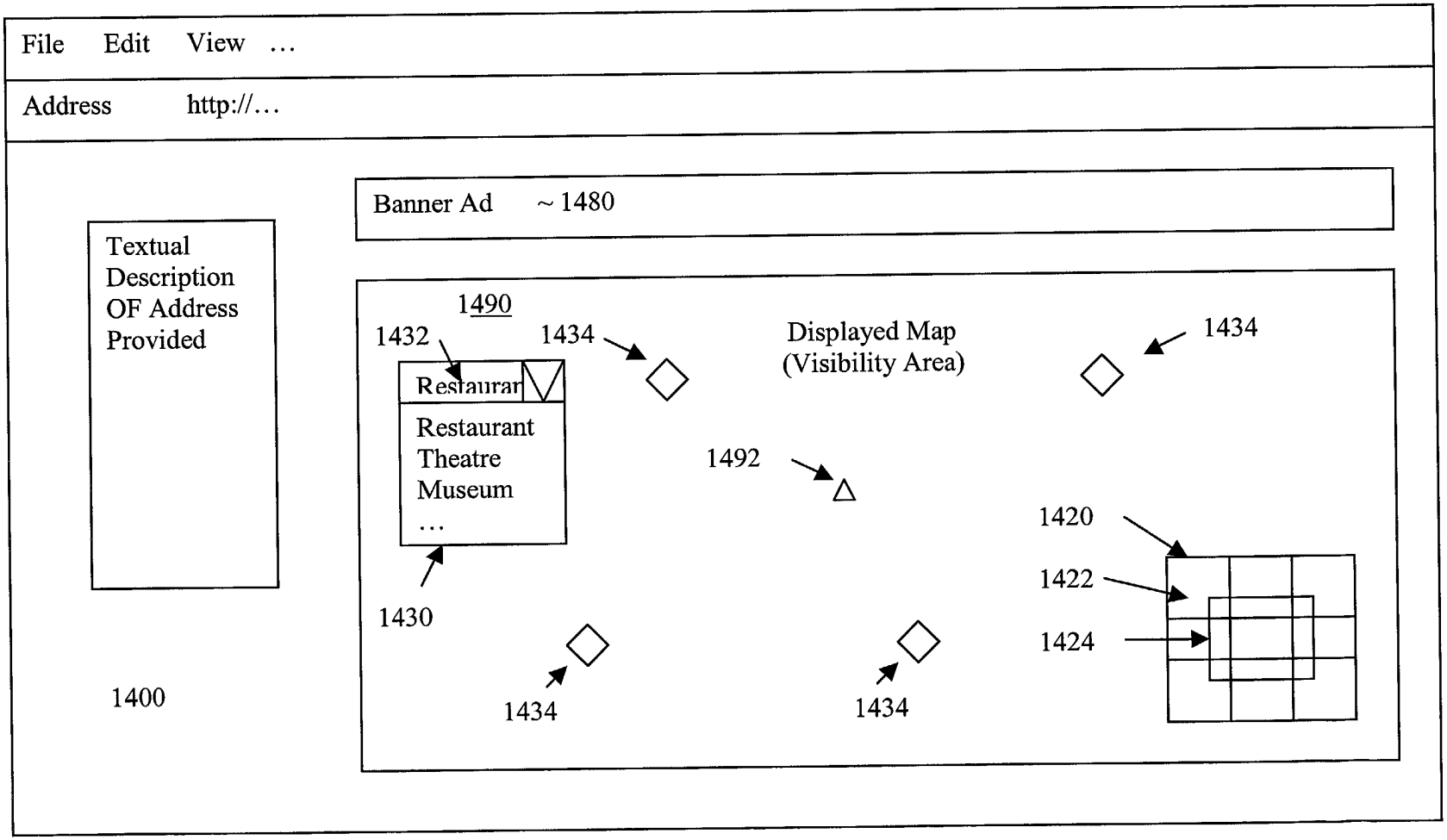

File Edit View ...
Address http://...
Banner Ad ~1480
Textual Description OF Address Provided
1490
1432
1434
Restaurar
Restaurant
Theatre
Museum
...
1430
Displayed Map (Visibility Area)
1434
1492
1420
1422
1424
1434
1434
1400

Figure 14b

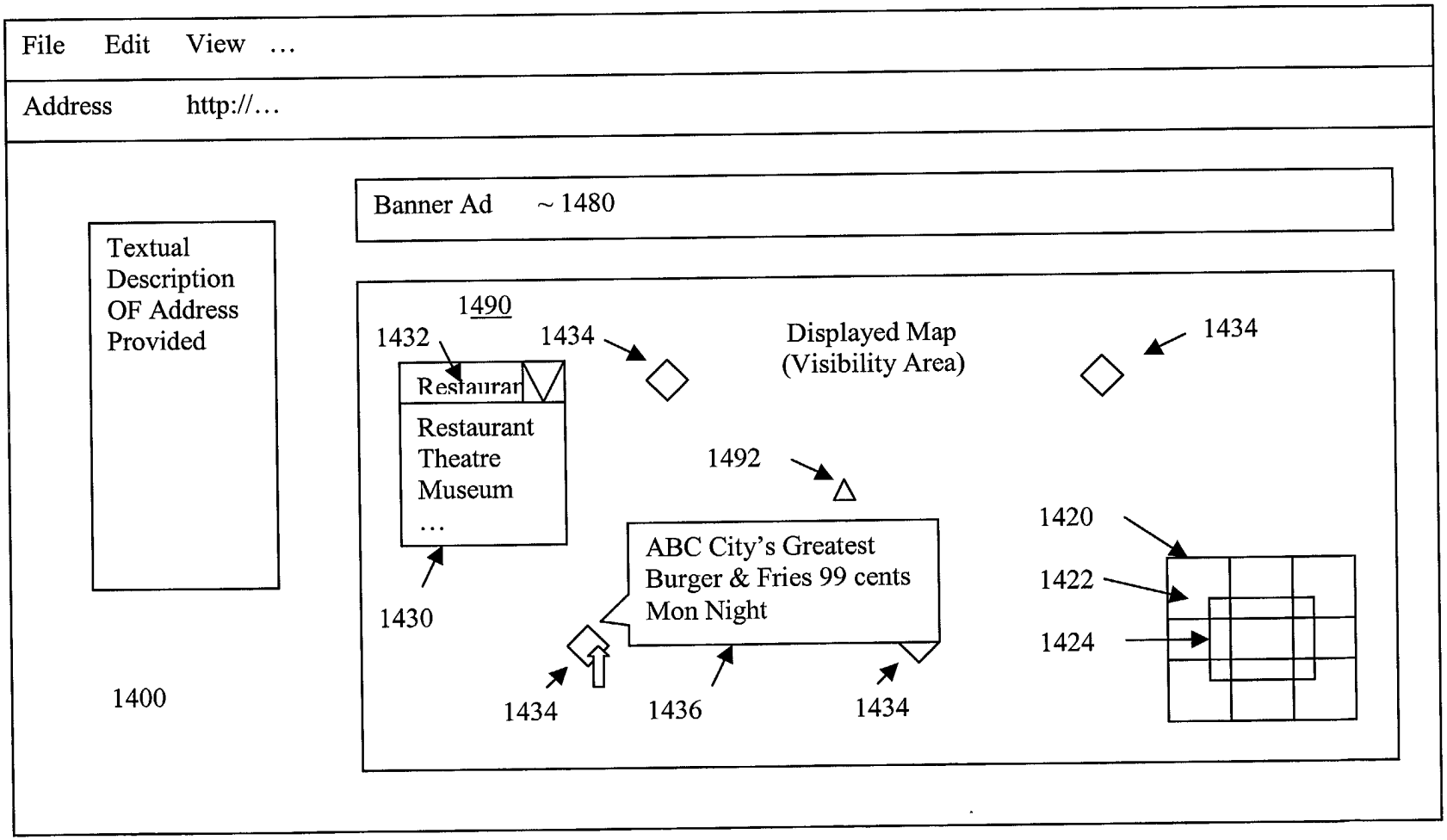

File Edit View ...
Address http://...
Banner Ad ~ 1480
Textual Description OF Address Provided
1490
1432
1434
Displayed Map (Visibility Area)
1434
Restaurant
Theatre
Museum
...
1492
1420
1422
1424
ABC City's Greatest Burger & Fries 99 cents Mon Night
1430
1434
1436
1434
1400

Figure 15

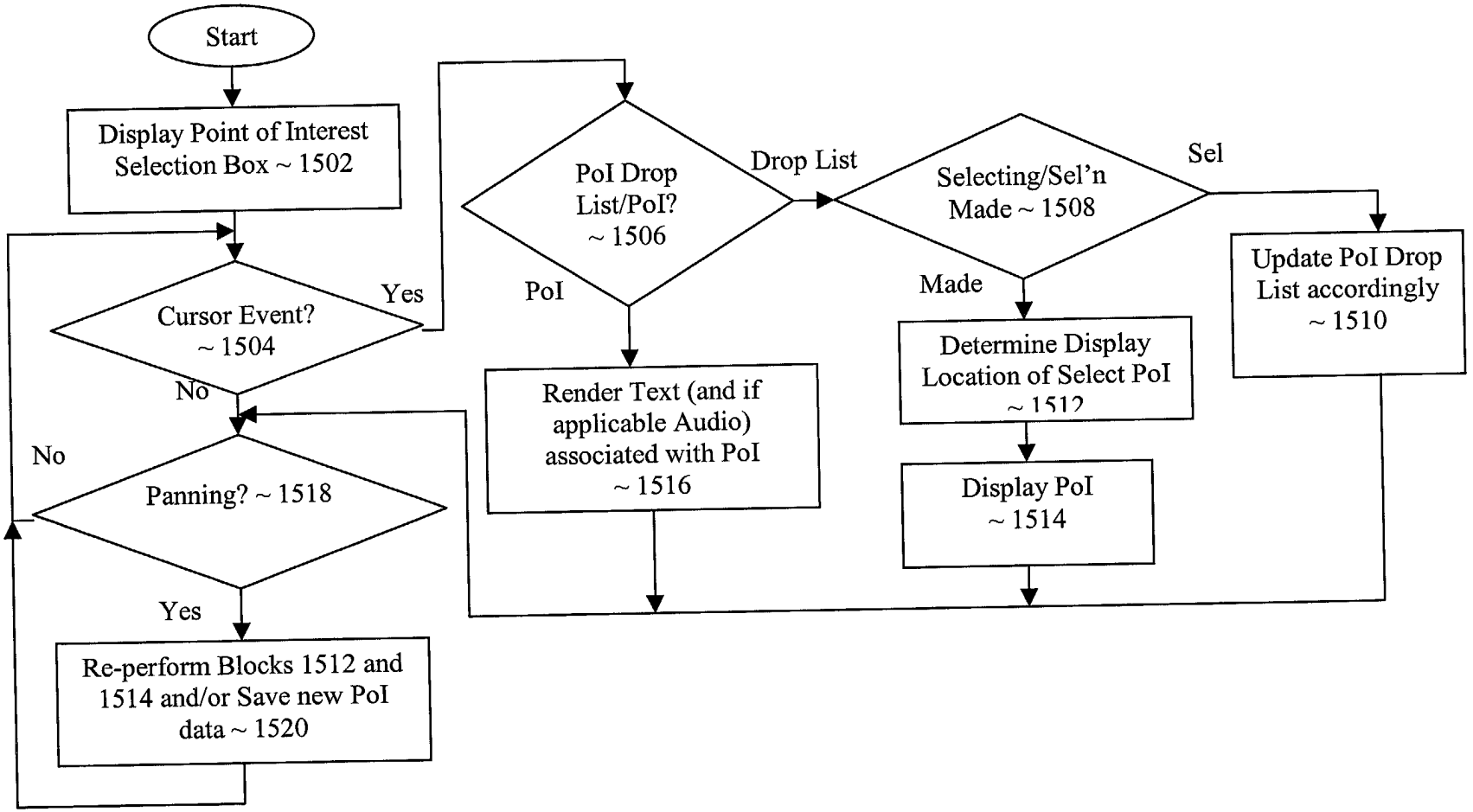
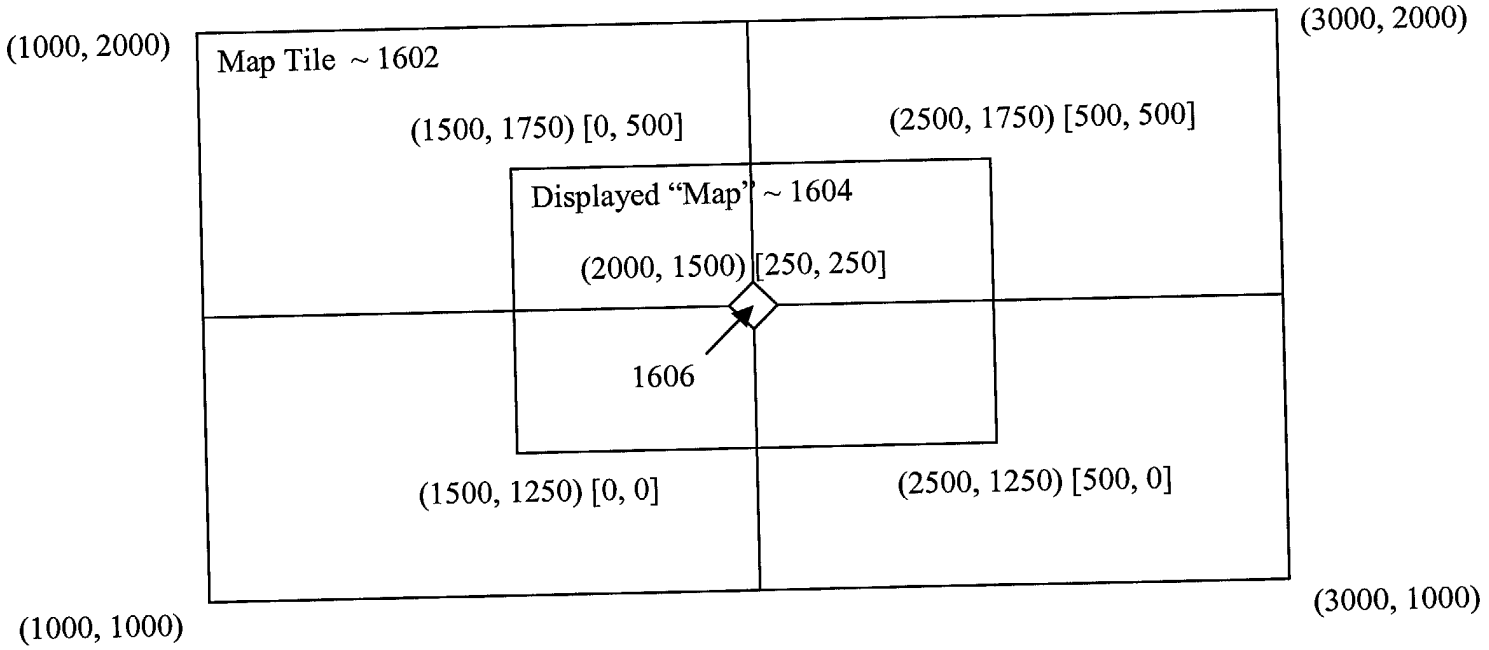

Start
Display Point of Interest Selection Box ~ 1502
Cursor Event? ~ 1504
Yes
No
Panning? ~ 1518
No
Yes
Re-perform Blocks 1512 and 1514 and/or Save new PoI data ~ 1520
PoI Drop List/PoI? ~ 1506
Drop List
PoI
Render Text (and if applicable Audio) associated with PoI ~ 1516
Selecting/Sel'n Made ~ 1508
Sel
Made
Determine Display Location of Select PoI ~ 1512
Display PoI ~ 1514
Update PoI Drop List accordingly ~ 1510

Figure 16



Legend: (x, y) geographical coordinates
[x, y] display coordinates